

Title (en)
Circulation pump with integrated cutting assembly

Title (de)
Kreispumpe mit integriertem Schneidwerk

Title (fr)
Pompe centrifuge avec barre de coupe intégrée

Publication
EP 2535590 A3 20180321 (DE)

Application
EP 12168834 A 20120522

Priority
DE 102011077545 A 20110615

Abstract (en)
[origin: EP2535590A2] The centrifugal pump assembly has a cutting unit (1) with a cutting surface (3) and openings (5) through which the medium flows. A cutting portion (4) lies on the cutting surface. The cutting unit and an impeller (2) are rotated together using a motor. A control device is associated with the motor for controlling the rotation of the impeller and the cutting unit at intervals in a different direction. The impeller is provided with blades which are extended in a purely radial direction, so that pump exhibits same characteristics in both directions of rotation.

IPC 8 full level
B01F 5/16 (2006.01); **B01F 25/64** (2022.01); **F04D 7/04** (2006.01); **F04D 29/22** (2006.01)

CPC (source: EP)
B02C 18/0092 (2013.01); **F04D 7/045** (2013.01); **F04D 29/2288** (2013.01)

Citation (search report)

- [X] DE 202005011680 U1 20051215 - HERBERG FRIEDRICH [DE]
- [XD] DE 2536555 A1 19760304 - PEABODY BARNES
- [Y] CA 2030881 A1 19910628 - GEN SIGNAL CORP [US]
- [Y] DE 9207883 U1 19920806
- [A] DE 29910596 U1 19990909 - HUGO VOGELANG MASCHINENBAU GM [DE]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2535590 A2 20121219; **EP 2535590 A3 20180321**; CN 102889248 A 20130123; DE 102011077545 A1 20121220

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